

ZHEREBTSOV, L.; ZEEZEYEVA, A.G., red.

[From the miniature "Kosmos" to the giant dredge] Ct  
maliutki "Kosmosa" do Dragi-velikana. Perm', Perm-  
skoe knizhnoe izd-vo, 1964. 149 p. (MIRA 18:7)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9

ZMBZIYEV, K.V., dotsent

Toward new heights in technical progress. Izv.vys.ucheb.zav.;  
gor.zhur. no.1:3-6 '60. (MIRA 13:6)  
(Mining engineering)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9"

ZERZIYEV, K. V., dotsent

Complete mechanization in the mining industry and its results.  
Izv. vys. ucheb. zav.; gor. zhur. no.10:85-95 '61.  
(MIRA 15:10)

1. Sverdlovskiy gornyy institut imeni Vakhrusheva. Rekomendovana  
kafedroy gornoj ekonomiki i planirovaniya proizvodstva.  
(Mining machinery) (Automation)

ZEBZIYEV, K.V., dotsent

Theory of industrial processes in mining. Izv. vys. ucheb. zav.;  
gor. zhur. 6 no.10:121-127 '63. (MIRA 17:2)

1. Sverdlovskiy gornyy institut imeni Vakhrusheva.

ASTAKHOV, Aleksandr Semenovich, kand. ekon. nauk; ZEBZIYEV, K.V.,  
retsenzent; SOMINSKIY, K.V., retsenzent; POTEKIN, P.I.,  
retsenzent

[Linear programming in mining] Lineinoe programmirovanie  
v gornom dele. Moskva, Izd-vo "Nedra," 1964. 143 p.  
(MIRA 17:7)

VASIL'YEV, M.V.; V'YUKHINA, A.S.; DORONENKO, Ye.P.; ZEBZIVEV, K.V.,  
kand. tekhn. nauk; LATS, V.M.; PARFENOV, G.V.; POPOV,  
V.Ye.; TROITSKIY, D.P.; FADDEYEV, B.V.; TSVETAYEVA, Z.N.;  
ZUHRILOV, L.Ye., kand. tekhn. nauk, otv. red.; MAKAROVA,  
N.U., red.; PAL'MIN, M.Z., telkhn. red.

[Evaluation and the prospects of the development of the  
mineral resources for ferrous metallurgy in Chelyabinsk area]  
Otsenka i perspektivy razvitiia syr'evoi bazy chernoi metal-  
lurgii Cheliabinskogo raiona. Sverdlovsk, AN SSSR, 1964. 67 p.  
(MIRA 17:4)

ZEBZIYEV, K.V., dotsent; TSERENSHCHIKOV, P.T., inzh.

Economic estimate of the service life of mine haulage equipment  
in strip mines. Izv.vys.ucheb.zav.; gor.zhur. 7 no.2:78-81 '64.  
(MIRA 17:3)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva. Rekomendo-  
vana kafedroy ekonomiki i organizatsii gornoj promyshlennosti.

ZEBZIYEV, K.V., dotsent; TSEREI-SHCHIKOV, P.T., inzh.

Put linear programming into the practice of planning and analysis  
in mining. Izv. vys. nechab. zav.; gor. zhur. 7 no. 10: 51-55 '64.  
(MIA: M:1)

1. Sverdlovskiy gornyy institut imeni V.V. Vakhrusheva. Rekonstrui-  
vana kafedroy ekonomiki i organizatsii gornogo proizvodstva.

ZEC, J.

Pancreatic abscess with extensive retroperitoneal spreading.  
Acta chir. Jugosl. 12 no.1:86-91 '65.

1. Kirurska klijika Opce bolnice "Dr. Z. Kucic" -- Medicinski  
fakultet Rijeka (Predstojnik doc. dr. V. Franciskovic).

8/044/62/000/011/002/064  
A060/A000

AUTHOR: Zec, Milorad

TITLE: Application of the impulse function to the derivation of certain properties of characteristic functions.

PERIODICAL: Referativnyy zhurnal, Matematika, no. 11, 1962, 2, abstract 11B5.  
(Statist. rev., 1961, v. 11, 32 - 38; Serbo-croatian; summary in French)

TEXT: The paper describes the application of the impulse function to the proof of certain well-known properties of characteristic functions. The impulse function  $\delta(x)$  is an even function possessing the following two properties: if  $f(x)$  is a function of bounded variation on a segment, then

a<sub>1</sub>)

$$\int_{x_0-\epsilon}^{x_0} \delta(x - x_0) f(x) dx = \frac{1}{2} f(x_0 - 0),$$

Card 1/5

S/044/62/000/011/002/064  
A060/A000

Application of the impulse function to ....

a<sub>2</sub>)

$$\int_{x_0}^{x_0+\epsilon} \delta(x - x_0) f(x) dx = \frac{1}{2} f(x_0 + 0);$$

b)

$$\int_{x_0+\alpha}^{x_0+\beta} \delta(x - x_0) f(x) dx = 0.$$

The point  $x_0$  is a point of discontinuity or a point of discontinuity of the first kind of the function  $f(x)$ ,  $\epsilon$  is an arbitrarily small real number. The numbers  $\alpha$  and  $\beta$  are real numbers of the same sign. The distribution function may be written in the form

$$F(x) = \int_{-\infty}^x \left[ f(x) + \sum_j p_j \delta(x - x_j) \right] dx,$$

where  $f(x)$  is a continuous function coinciding, with precision up to a posi-

Card 2/5

S/044/62/000/011/002/064  
A060/A000

Application of the impulse function to ....

tive factor, with the frequency function; the number  $p_j$  is the jump of the function  $F(x)$  at the point  $x_j$ . According to the definition of the characteristic function set

$$\varphi(t) = \int_{-\infty}^{+\infty} e^{itx} dF(x), \quad dF(x) = \left[ f(x) + \sum_j p_j \delta(x - x_j) \right] dx.$$

Let

$$I(c, y) = \frac{1}{2c} \int_{-c}^c \varphi(t) e^{-ity} dt.$$

One single method is used in the paper to prove a number of well known properties of characteristic functions. Here are some of them:

I. If:

$$\varphi(t) = \int_{-\infty}^{+\infty} e^{itx} dF(x),$$

Card 3/5

S/044/62/000/011/002/064

A060/A000

Application of the impulse function to ....

$$F(x) = \int_{-\infty}^x \left[ f(x) + \sum_j p_j \delta(x - x_j) \right] dx,$$

then

$$I = \frac{1}{2\pi} \int_{-\infty}^{+\infty} \varphi(t) e^{-itu} dt = f(u) + \sum_j p_j \delta(u - x_j).$$

$$\text{II. } \frac{1}{2\pi} \int_{-\infty}^{+\infty} \varphi(t) dt = \left[ f(x) + \sum_j p_j \delta(x - x_j) \right]_{x=0}$$

$$\varphi(0) = 1.$$

III.

$$\text{IV. } \frac{1}{2\pi} \int_{-\infty}^{+\infty} \frac{1 - e^{-itu}}{it} \varphi(t) dt = F(u) - F(0).$$

Card 4/5

Application of the impulse function to ....

8/044/62/000/011/002/064  
A060/A000

v.  $\frac{1}{2\pi} \int_{-\infty}^{+\infty} \varphi^{(n)}(t) e^{-itu} dt = i^n u^n f(u) + i^n \sum_j p_j x_j^u \delta(u - x_j).$

V.A. Sadovnichiy

[Abstracter's note: Complete translation]

Card 5/5

GVOZDENOVIC, M.; NIKULIN, E.; ZEC, NJ; KOSORIC, D.; MILADIMOVIC, Z.

Kala azar (leishmaniasis visceralis) with muco-cutaneous lesions.  
Acta med. iugosl. 15 no.3:863-871 '61.

1. Institute of Microbiology, Institute of Pathology and Pediatric  
Clinic, Medical Faculty, University of Sarajevo.  
(LEISHMANIASIS MUCOCUTANEOUS in inf & child)  
(LEISHMANIASIS VISCELAR in inf & child)

ZEC, N.; RIMSKI, B.

The van Bogaert subacute sclerosing leucoencephalitis.  
Bul sc Youg 7 no.1/2:8 F-Ap '62.

1. Neuropsihijatrijska klinika Medicinskog fakulteta,  
Sarajevo.

ZEC, N.

First symposium on the rehabilitation of the disabled of  
Bosnia and Hercegovina; Sarajevo, October 30-31, 1961. I-II.  
Bul sc Youg 7 no.1/2/10 F-Ap '62.

1. Neuropsihijatrijska klinika Medicinskog fakulteta,  
Sarajevo.

\*

SARVAN, M.; ZEC, N.; VASIC, D.; MAJSTOROVIC, M.; BOGDANOV, B.; HAKSTOK, V.  
Medicine. Bul sc Youg 7 no.3:67-68 Je '62.  
1. Medicinski fakultet, Sarajevo.

\*

ZEC, N.; BOKONJIC, R.

Our experience with antidepressant drugs (preliminary communication).  
Neuropsihijatrija 8 no.4:278-284 '60.

1. Neuropsihijatrijska klinika Medicinskog fakulteta u Sarajevu  
(Sef: Prof. dr. Nedo Zec).

(PSYCHOPHARMACOLOGY) (DEPRESSION ther)

ZEC, Nedo, prof. dr.; BOKONJIC, Nenad, dr.

New method of peptic ulcer therapy with insulin shock. Med. glasn. 8  
no.11-12:425-431 Nov-Dec 54.

1. Neuropsihijatrijska klinika Medicinskog fakulteta u Sarajevu (see  
prof. dr. N.Zec)  
(SHOCK THERAPY, INSULIN, in various dis.  
peptic ulcer)  
(PEPTIC ULCER, ther.  
insulin shock ther.)

ZEC, Nedo, prof., dr.; DANILOVIC, Budimir, dr.; BOKONJIC, Risto, dr.

Neuroses among railway workers. Med. glasn. 15 no.2/2a:70-73 F '61.

1. Neuro-psijijatrijska klinika Medicinskog fakulteta u Sarajevu  
(Upravnik: prof. dr N. Zec).

(NEUROSES statist) (RAILROADS)

BASAGIC, E.; CATOVIC, S.; ZEC, R.

Our experiences with Ulcosan in the treatment of gastrointestinal ulcer. Med. arh. 18 no. 6:57-68 N-D'64.

1. II. interni klinika Medicinskog fakulteta u Sarajevu (Sef: Prof. dr. Miron Simic); Istrazivacka laboratorija tvornice "Bosnalijek".

ZEC, Risto, dr.; HERLINGER, Ivo

Recurrent pneumonias caused by bronchial occlusions. Med. ark. 15  
no. 3143-146 My-Je '61.

1. II interna klinika Medicinskog fakulteta u Sarajevu (Sef: prof.  
dr Miron Simic) Otolaringolska klinika Medicinskog fakulteta u  
Sarajevu (Sef: prof. dr Zarko Frastalo).  
(PNEUMONIA etiol)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9

JEVTIC, Zivojin, doc.dr.; MAROVIC, Drago, dr.; ZEC, Risto, dr.; POPOVIC, Vojin, dr.

Tin therapy of taeniasis. Med. galan. 13 no. 11:547-549 H '59.

1. II Interna klinika Medicinskog fakulteta u Sarajevu, upravnik:  
prof. dr. M. Simic.  
(TIN ther.)  
(TAPEWORM INFECTIONS ther.)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9"

ZEC, R.; LAZOVIC, V.; SIMIC, M.

Our experience with liver cirrhosis. Med. arh., Sarajevo 14 no.6:103-  
116 N-D '60.

1. II Interna klinika Medicinskog fakulteta u Sarajevu (Sef: prof.  
d-r Miron Simic)  
(LIVER CIRRHOSIS case reports)

JEVtic, Z., doc. dr.; BUCIC, M., prof. dr.; ZEC, R., dr.; LAZOVIC, V., dr.

6 fatal cases in atabrine therapy of taeniasis. Med. glas.  
16 no.6/6a:285-287 Je '62.

1. Institut za Sudsku medicinu u Sarajevu (Upravnik: prof. dr.  
M. Bucic). (QUINACRINE) (TAPEWORM INFECTION)

ZEC, R.; REZAKOVIC, D.; IBRAHIMBEGOVIC, F.

Clinical contribution to megaloblastic anemia in pregnancy. Med.arh.,  
Sarajevo 14 no.7:67-73 Ja '61.

1. Interna klinika Medicinskog fakulteta u Sarajevu - II odjeljenje  
(Sef: prof. d-r Miron Simic)  
(PREGNANCY compl)  
(ANEMIA HYPERCHROMIC in pregn)

DVORNIK, I.; POSAVEC, V.; ZEC.U.

Experimental source of gamma radiation in the Ruder Boskovic Institute; abstract. Glas Hem dr 27 no. 9/10:551 '64

1. The Ruder Boskovic Institute, Department of Radiochemistry  
Zagreb.

DVORNIK, I.; ZEC, U.

Spectrophotometric measurement of HCl traces in nonaqueous systems, and its application in the radiation chemistry of organic liquid systems; abstract. Glas Hem dr 27 no.9/10: 545 '64

1. The Ruder Boskovic Institute, Department of Radiochemistry, Zagreb.

BUKUROV, Stanislav; PESIC, Radoslav; KARADZIC, Aleksander; ZECEVIC,  
Borivoje.

Cancer of the head of the pancreas. With special reference  
to physiopathology and therapy. Srpski arh. celok. lek. 91  
no.6:565-573 Je'63.

I. I hirurska klinika medicinskog fakulteta Univerziteta u  
Beogradu. Upravnik: prof.dr. Bogdan Kosanovic.

BUKUROV, Stanislav; KARADZIC, Aleksandar; ZECEVIC, Bozidar

Carcinoma of the breast. Srpski arh. celok. lsk. 91 no.2:  
123-134 F '63.

1. I hirurska klinika Medicinskog fakulteta Univerziteta u  
Beogradu Upravniki: prof. dr. Bogdan Kosanovic.  
(BREAST NEOPLASMS) (MASTECTOMY)

5

[REDACTED] YUGOSLAVIA

Stanislav BUKUROV, Aleksandar KARAGJIC and Bozidar ZECEVIC, First Surgery Clinic of Medical Faculty of University (I hirurska klinika Medicinskog fakulteta Univerziteta) Head (Upravnik) Prof Dr Bogdan KOSANOVIC, Belgrade.

"Mammary Carcinoma."

Belgrade, Srpski Arhiv za Celokupno Lekarstvo, Vol 91, No 2, Feb 63;  
pp 123-134.

Abstract [English summary modified]: Discussion of many pathogenetic, diagnostic, surgical and prognostic aspects. Of 253 patients operated upon 1947-1956, most with subsequent irradiation treatment, only 141 could be traced for follow-up; average 5-year survival was 77 (62.6%). Clinical data are tabulated in many ways - parity, age, stage and duration of tumor at diagnosis, treatment and results according to stage at diag. and operation. Eight tables; 6 Soviet and 39 Western references.

1/1

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9

KOSANOVIC, Bogdan; STEFANOVIC, Branislav; ZECEVIC, Bozidar

Intrathoracic neuroma. Srpski ark. celok. lek. 91 no.12:1223-1227  
D '63.

1. I hirurska klinika Medicinskog fakulteta Univerziteta u Beogradu  
(Upravnik: prof. dr. Bogdan Kosanovic).

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9"

ZECEVIC, D.

A contribution to the study of fishing at Muo, a settlement of fishermen in Kotorski  
Zaliv. p. 545  
(GLASNIK. Vol. 2/3, 1954/53. (Published 1957)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957  
Uncl.

ZECEVIC, D.

Yugoslavia (430)

Novelties in the structure of German tracks, p.163.  
TEHNICKI PREGLJD. (Croatia. Uprava za unapredjenje  
proizvodnje pri privrednom savjetu) Zagreb. (Bimonthly  
technical journal issued by the Production Improvement  
Administration of the Economic Council) Vol. 8, no. 5,  
May 1952.

East European Russian Acquisitions, Library of Congress,  
Vol. 2, No. 6, June 1953, Unclassified

ZECEVIC, D.

Yugoslavia (430)

Technology-Periodicals

Novelties in the structure of German tracks.  
p. 163. ZELEZNICE. (Jugoslavenske zeleznice)  
Beograd. (Monthly on railroad problems issued  
by the Yugoslav railways) Vol. 8, No. 5, May, 1952.

East European Accessions List. Library of Congress  
Vol. 2, No. 6, June 1953. Unclassified.

ZECEVIC, F.

Economic aspects of operating the Kabetovci Agricultural Cooperative, district of Banja Luka, as shown in its final accounting in 1957. p. 373.

Periodical: POLJOPRIVREDNI PREGLED.

Vol. 7, no. 9/10, Sept./Oct. 1958.

AGRICULTURE

SO: Monthly List of East European Accessions (EEAI) LC

Vol. 8, No. 4  
April 1959, Unol.

ZECEVIC, F.

Economic analysis of the production experiments with winter wheat  
carried out in 1957/58 on some agricultural estates. p. 436

POLJOPRIVREDNI PREZLED. (Drustvo poljoprivrednih inzenjera i tehnicara  
Bosna i Hercegovine) Sarajevo, Yugoslavia. Vol. 7, no. 11/12, Nov./  
Dec. 1958

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 6  
June 1959  
Uncl.

ZEGEVIC, Ilijana; KARAKUSEVIC, Milica; KONSTANTINOVIC, Ivan;  
MILJANIC, Milos

Effect of drinking of Bukovicka Banja mineral water on the  
renal elimination of water and electrolytes. Srpski arh. celok.  
lek. 90 no. 9:833-838 S '62.

J. Balneo-klimatolski institut NR Srbije u Beogradu Direktor:  
doc. dr. Vlastimir Godis.  
(WATER ELECTROLYTE BALANCE)  
(MINERAL WATERS) (DIURESIS)

S

YUGOSLAVIA

Miljana ERCEVIC, Milica KARAKUSVIC, Ivan KONSTANTINOVIC, and Milos VILJANIC, Institute of Balneology and Climatology (Balno-klimatoloski Institut) People's Republic of Serbia (YR-Narodna Republika Srbija) Director (Direktor) Docent Dr Vlastimir GUDIC, Belgrade.

"Effects of Drinking Mineral Water from the Spa Bukovicka Banja onto Mineral Water and Electrolyte Excretion."

Belgrade, Srpski Arhiv za Celokupno Lekarstvo, Vol 90, No 9, Sept 1962; pp 833-838.

Abstract [German summary modified]: Study in 6 men aged 25 to 35 during 20 days: drinking mineral water, excretion of K, Na, Cl, Ca, Mg and F: water; comprehensive statistical treatment. Diuresis and phosphaturia increased. Discussion. Eight tables, 2 Yugoslav and 2 French references.

L1/1

ZECEVIC, Lj.

"Effect of Technical DDT on the First Growth Stages of Maize" p. 57  
(ZBORNIK RADOVA, Vol. 25, no. 2, 1952, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2,  
No. 10, October, 1953, Unclassified

ZECVIC, Nasto, Dr.

Indications for Cesarean section. Med. arh., Sarajevo 11  
no.1:85-98 Jan-Feb 57.

1. Ginekolosko-akusersko odjelenje Sreske bolnice u Nisu  
Sef: dr. Nasto Zecevic.  
(CESAREAN SECTION  
indic. (Ser))

ZECVIC, Nasto, dr.

Extrauterine pregnancy in the pathology of gynaecological diseases  
in Southeast Serbia. Med. arh., Sarajevo 8 no.4:51-65 July-Aug 54.

1. Ginekolosko-akusersko odjeljenje Niš, saf Dr. Nasto Zecvic.  
(PREGNANCY, ECTOPIC, statist...  
Yugosl.)

ZECVIC, Nasto; PAVLOVIC, Stanoje

Our experience with Madlener's sterilization, Srpski arh. celok.  
lek. 88 no.5:513-516 My '60.

1. Ginekolosko-akusersko odjeljenje Opste bolnice u Nisu. Sef: dr  
Nasto Zecevic.

(STERILIZATION SEXUAL)

ZECEVIC, Nasto; PAVLOVIC, Stanoje

Torsion of sarcoma of the tube in a girl 11 years of age. Srpski  
arh. celok. lek. 88 no.6:711-713 Je '60.

1. Ginekolosko-akusersko odeljenje Opste bolnice u Nisu. Sav: dr  
Nasto Zecevic.

(SARCOMA in inf & child) (FALLOPIAN TUBES neopl)

ZECEVIC, Nasto, dr.; GANIC, Ruzica, dr.; STOJKOVIC, Dragica, dr.

Natural delivery in a woman with previous cesarean section. Med.  
glasn. 15 no.5:224-226 My '61.

1. Ginekolosko-akusersko odeljenje Bolnice u Nisu (Upravnik: prim.  
dr N. Zecevic).

(CESAREAN SECTION) (DELIVERY)

ZECEVIC, Nasto, dr.; LAZIC, Dragan, dr.; JORDANCEVIC, Jovan, dr.

Meconium peritonitis. Med. glasn. 15 no.7/8:348-350 Jl-Ag '61.

1. Ginekolosko-akusersko odeljenje u Nisu (Sef: prim. dr N. Zecevic).  
Ortopedsko-hirursko decje odeljenje u Nisu (dr M. Mitrovic).

(PERITONITIS in inf & child) (MECONIUM)

ZECEVIC, Snezana

"Economy of the operations of a station" by G.K. Naumov, N.I. Silayev [Silayev, N.I.], N.Ya. Stefanov, P.S. Ushakov, N.T. Cernuha [Chornukha, N.T.], and L.D. Berzagal [Berzhigal, L.D.]. Reviewed by Snezana Zecevic. Zeleznice Jug 19 no.4:49-51 Ap '63.

CA

The sulfuric acid ester salt of cyclohexanone oxime. Zoltán Csáros, Konstantin Zech, and Sára Zech (Univ. Tech. Sci., Budapest, Hung.). *Acta Chim. Hung.*, 1, 83-93(1951) (in German); cf. preceding abstr. — The structure of the  $\text{H}_2\text{SO}_4$  ester salt of cyclohexanone oxime (I) prep'd. from I and  $\text{NaHSO}_4$ .

(IA) or from cyclohexanone and  $\text{H}_2\text{NOSO}_4\text{H}$  was examd. Cyclohexanone with sulfoperimidic acid in the presence of an equiv. amt. of alkali as described by Knoll (cf. Ger. patent 540,409, *C.A.*, 26, 3203), gave a product identical to that obtained by treating I with IA. Catalytic hydrogenation of this product proved that it is not a deriv. of  $\alpha$ -aminoacrylic acid lactam but a  $\text{H}_2\text{SO}_4$  ester salt (II) of  $\text{I}, (\text{CH}_2)_5\text{C}=\text{NOSO}_4\text{K}$ . Catalytic hydrogenation of II gave cyclohexylamine and dicyclohexylamine. II was surprisingly sensitive to alkali, which is unusual for a ketoxime  $\text{H}_2\text{SO}_4$  ester salt. This is caused by the cleavage which is effected not only by mineral acids but also by alkalies with a simultaneous rearrangement. The cleavage products were  $\alpha$ -leucine lactam and  $\text{KHSO}_4$ . The  $\text{H}_2\text{SO}_4$  group is cleaved in this case, differing from other ketoxime  $\text{H}_2\text{SO}_4$  ester salts, not as a salt of sulfoperimidic acid but as a  $\text{H}_2\text{SO}_4$  salt, leaving N on the residue.

István Finály

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9

ZECH, KONSTANTIN  
ZOLTAN CSUROS, Magyar Chem. Polyoirat 47, 91-111, 1941

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9"

*Acti derivatives of cyclohexanone oxime, with special regard to the Beckmann rearrangement.* Zoltán Csáros, Kossuth Lajos Zichy, Gyula Dély, and Etel Zalay (Univ. Tech. Sci., Budapest, Hungary). Acta Chim. Hung. 1, 66-82 (1951) (in German). — When cyclohexanone oxime (I) was treated with various acids or carboxylic acids, the mixture cooled or with  $\text{CHCl}_3$ ,  $\text{CH}_2\text{Cl}_2$ , or  $\text{C}_6\text{H}_6$ , the filtrate shaken out with 30%  $\text{NaOH}$ , filtered, and the residue dried, it was with  $\text{CHCl}_3$ , the solvent evap'd, and the oximes or oximes more, the reaction products were either lactams, or known lactams together, in 22.0-40.0% yields. By known methods the product of rearrangement can be obtained in high yield by the reaction of 0.50 mol.  $\text{H}_2\text{SO}_4$  with 1.0 mol. oxime at the lowest possible concn. of  $\text{H}_2\text{SO}_4$  (11.3% as compared to 75% stated by other authors),  $\text{P}_2\text{O}_5$ ,  $\text{PCl}_5$ , and  $\text{H}_3\text{PO}_4$  are available for rearranging the oxime.  $\text{SOCl}_2$  also effects the rearrangement; the rate of rearrangement depends, however, on the nature of the solvent used. New esters of I were prep'd. by treating the  $\text{Na}^+$  deriv. (II) of I with various acid chlorides. They can be classified in 4 groups: (a) esters which on hydrolysis yield I; (b) esters of formic acid, behaving like the group (a), except for the disulfide compound; (c) esters which give cyclohexanone and a primary acid or  $\text{H}_2\text{O}$  when hydrolyzed; and (d) esters which give the Beckmann rearrangement products. The following compounds were prep'd.: I acetate, b.p. 130°, was obtained in 90.2% yield from I,  $\text{CH}_3\text{CO}_2\text{N}$ , and  $\text{AcCl}$  after shaking out with water and evap'd. The  $\text{CHCl}_3$  phase, II (100%), was obtained by treating I with  $\text{NaNH}_2$  in  $\text{C}_6\text{H}_6$  soln.  $\text{I}\text{-formate}$  (91.4%) was obtained by treating a suspension of II in  $\text{C}_6\text{H}_6$  with  $\text{t-BuOCOC}_2$ . Similar treatment of II with  $\text{COCl}_2$  gave 94.4% I acetate, I anhydride (88-90%), was obtained from II and  $\text{SOCl}_2$  whereas II and  $\text{SOCl}_2$  gave 85% I sulfate, m. 71°. Treatment of II with  $\text{CS}_2$  and recrystn. of the product from  $\text{MeCO}$  gave the disulfide compd. ( $\text{C}_6\text{H}_5\text{O}_2\text{NS}_2$ ) (III), m. 62°. Hydrolysis of III gave a mixt. from which approx. equal amounts of I and cyclohexanone could be sep'd. I benzoate (91.2%), m. 88°, was obtained from I in abn.  $\text{C}_6\text{H}_5\text{N}$  with  $\text{BrC}_6\text{H}_5\text{CO}_2\text{Na}$ . I  $\text{Fe}^{+2}$  carbamate (90.8%) was obtained from II with  $\text{BrOCl}_2\text{O}_2\text{C}_6\text{H}_5$ . I benzoylmalonate (almost 100%), m. 10°, was obtained from II with  $\text{PhSO}_2\text{Cl}$ . I 2-sulphalactone (93.7%), m. 51°, was obtained from II with 2-sulfone (93.7%), m. 51°. I 2-disulfone (97%), m. 60°, was obtained from II with  $\text{P}_2\text{Me}_5\text{C}_6\text{H}_5\text{SO}_2\text{Cl}$ . I 1,4-disulfone (96%) was obtained from II in liquid form from II with  $\text{P}_2\text{Me}_5\text{C}_6\text{H}_5\text{SO}_2\text{Cl}$ . II treated with p-tolyl chloride, gave 95.6% I tosate (IV), m. 175°. IV boiled 5 hrs. in  $(\text{CH}_3)_2\text{CH}$  rearranged to the N-tosyl lactam, m. 175°.

CP

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9

LECH, SARA,

ZOLTAN CSUROS, Acta Chim. Hung. 1, 83-93 (1951)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9"

SZYMCAK, Jozef; ZECHALKO, Alicja

Determination of minute amounts of arsenic in food and  
articles of common consumption. Roczn panstw zakl hig 14  
no. 3;239-244 '63.

1. Department of Food Articles, School of Medicine,  
Wroclaw.

JASINSKA, M.; ZECHALKO, A.; SZYMCZAK, J.

Arsenic content of foods grown near the arsenic mine in Zlaty  
Stok. Cesk. hyg. 10 no. 3:227-232 My '65

1. Lekarska akademie Vratislav, Polsko.

VYTASIL, V.; JANECEK, J.; SVACINA, J.; ZECHEL, B.

Enamels colored with cadmium colors. Silikaty 6 no.3:245-257  
'62.

1. Sfinx Ceske Budejovice, n.p.

PARADA, V.; SHELEVENKO, G. (Kalinin); CHEVYCHELOV, P.; ZEDCHEWIDZE, G.;  
SYSKO, Yu.

Readers' letters. Pozh.delo 10 no.2:30 F '64. (MIRA 17:3)

1. Nachal'nik Upravleniya pozharnoy okhrany UzSSR (for Parada).
2. Instruktor Ryazanskogo oblastnogo Dobrovol'nogo pozharnogo  
obshchestva (for Chevychelov).

P/025/60/000/009/001/002  
D003/D101

AUTHORS:

Gomułczyński, Józef, Master, Zechenter, Jan, Master  
Engineer, Gierlaszyńska-Czerwińska, Stanisława, Master,  
and Kasza, Adam

TITLE:

Instructions for cement tests and determination of  
cement properties for the needs of the petroleum indus-  
try

PERIODICAL: Nafta, no. 9, 1960, 244-249

TEXT: The article contains a detailed description of cement testing procedures in the petroleum industry. The new instructions are based on the official instructions issued by the Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników PN (Scientific and Technical Association of Polish Petroleum Engineers and Technicians), on US standards (API) and on Soviet standards (GUST). Individual paragraphs of the instructions are dedicated to cement sampling and necessary instrumentation, fineness specifications for cement used in bore holes, preparation of cement slurry for testing, determina-

Card 1/2

Instructions for cement tests...

P/025/60/000/009/001/002  
D003/D101

tion of the specific gravity of slurry, filtration tests, setting time requirements, consistometer tests of cement samples and determination of mechanical properties of cement. The article closes with a facsimile of a test certificate. Upon approval by the Żjednoczenie Przemysłu Naftowego (Petroleum Industry Union), the instructions will be obligatory for the entire petroleum industry. There are 4 figures and 3 tables.

Card 2/2

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9

MISCHKE, Kazimierz, mgr., inz.; HOLANSKI, Zygmunt, inz.; PTAK, Marian,  
mgr., inz.; WOJCIK, Jozef, mgr., inz.; ZECHENTER, Jan, mgr.inz.

A Preliminary instruction on cementing. Prace Inst naft no. 69:13-  
26 '61.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9"

ZECHEVICH

YUGOSLAVIA/General Biology - Genetic

Abs Jour : Ref Zhur - Biol., No 5, 1953, 19111

Author : Zecchevich  
Inst :  
Title : Additional Chromosomes in Inbred Lines of Zea mays I.  
I. Behavior of Additional Chromosomes in the First  
Meiotic Division in Lines. I, Generation.  
A Preliminary Communication.

Orig Pub : Glasnik biol. ser. Hrvatsko prirodosl. drustvo, 1953,  
(1955), Ser. 2B, 7, 382-383

Abstract : No abstract.

Card 1/1

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9

SHAROV, Vladimir Semenovich; AL'PER, N.Ya., rotnenzent; ZEGLIKHIN, B.B.,  
red.; BORUNOV, N.I., tekhn. red.

[Electromechanical inductor-type alternators] Elektromashinnye in-  
duktornye generatory. Moskva, Gos. energ.izd-vo, 1961. 143 p.  
(MIRA 14:11)

(Electric generators)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9"

ZEMNIKIN, Boris Semonovich, assistant

Magnetic field in the gap of an induction machine under no-load  
operating conditions, Izv.vys.ucheb.zav.; elektro-mekh. 3  
no.1;73-83 '60.

(MIRA 13:5)

1. Kafedra aviationskikh elektricheskikh mashin Moskovskogo  
aviatsionnogo instituta.  
(Electric motors, Induction) (Magnetic fields)

S/1b4/60/000/01/009/019  
E194/E155

AUTHOR: Zechikkin, B.S., Assistant

TITLE: The Magnetic Field in the Gap of an Inductor Machine,<sup>29</sup>  
under No-load Conditions

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,  
Elektromekhanika, 1960, Nr 1, pp 73-83 (USSR)

ABSTRACT: The operating principles of an inductor machine are  
briefly explained with reference to Figs 1 and 2. The  
article describes an analytical method of determining  
the magnetic field in the air gap of such a machine for  
an arbitrary distribution of m.m.f. along the air gap;  
and a relationship is given between the field strength  
and the height of the rotor pole. The simplifying  
assumptions made are stated. They are the ones usually  
adopted in the analysis of electrical machines, and lead  
to results of sufficient accuracy for practical purposes.  
The m.m.f. at the rotor surface is taken as unity, which  
does not alter the nature of the field distribution in  
the air gap. The pitch of the rotor teeth is assumed  
constant and this also does not make the solution less  
general. As the configuration of the air gap is cyclic,

1/3 ✓

S/144/60/000/01/009/019  
E194/E155

The Magnetic Field in the Gap of an Inductor Machine under  
No-load Conditions

the field distribution may be found by determining the m.m.f. as a function of the coordinates for the region illustrated diagrammatically in Fig 3. It is assumed that this function satisfies the Laplace equation with the boundary conditions given by expression (3). To solve the problem the m.m.f. function is represented as the product of two functions, using the Fourier method. Finally, expression (41) is derived for the m.m.f. as a function of the geometrical coordinates. The interesting components of the induction are those normal to the stator surface, particularly the constant component and the first harmonic, which are given by expressions (43) and (44) respectively. These expressions may be somewhat simplified by the use of Eq (45). If the fourth and higher terms are rejected, the consequent error in the sum of the series on the right-hand side of Eq (45) is 7%, which is acceptable for practical purposes.

Values of the constant component of magnetic flux are plotted in Fig 5, and compared with values obtained by

Card  
2/3

5/144/60/000/01/009/019  
E194/E155

The Magnetic Field in the Gap of an Inductor Machine under  
No-load Conditions

the method of conformal representation, which are plotted by dotted lines. Results obtained with an electro-magnetic integrator are shown chain-dotted. The greatest difference between results obtained by the analytical method described in this article and by the accurate method of conformal representation is 8.5%. Thus, the analytical method provides a semi-graphical method of determining the induction as a function of the height of the rotor pole and is sufficiently accurate for practical purposes.

There are 6 figures, no tables, no references.

ASSOCIATION: Kafedra aviationsionnykh elektricheskikh mashin,  
Moskovskiy aviationsionnyy institut  
(Chair of Aviation Electrical Machines,  
Moscow Aviation Institute)



DATUMED: February 11, 1959

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9

ZECHKIN, B.S., inzh.

Magnetic field in the gap of an inductor generator with a  
pulsating induction flux of the rotor dents. Trudy MAI  
no.133:120-140 '61. (MIRA 14:5)  
(Electric generators)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9"

ZECHIKHIN, Boris Semenovich, kand.tekhn.nauk, ispolnyayushchiy ob-  
yuzannostti dozentov, PAVLOVA, Korneliya Nikolayevna, stu-  
dentka-diplomnitsa

Magnetic field in the air gap of an inductor machine with a  
comb-type toothed zone. Izv. vys. ucheb. zav.; elekromekh.  
(MIRA 16:9)  
6 no.8:907-916 '63.

1. Moskovskaya ordena Lenina aviatsionnyy institut.

ZECHMEISTER, Antonin

Macroskopics and microscopics observations of muscular  
(myocardial) bridges and loops over coronary arteries  
of dogs. Cesk. maf. 13 no.1&1-11 '65

1. Institute of Anatomy, Faculty of Medicine, J.E.Purkyne  
University, Brno.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9

CONFIDENTIAL - THIS DOCUMENT IS UNCLASSIFIED

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9"

ZECHMEISTER

Chemical Abst.  
Vol. 46 No. 3  
Feb. 10, 1954  
Organic Chemistry

Progress in Chemistry of Organic Compounds, Vol.  
IX. Edited by M. Zechmeister. Vienna: Springer-Verlag.  
1952. 535 pp. \$19.75. cl. U.S. 43, 8397c.

CA

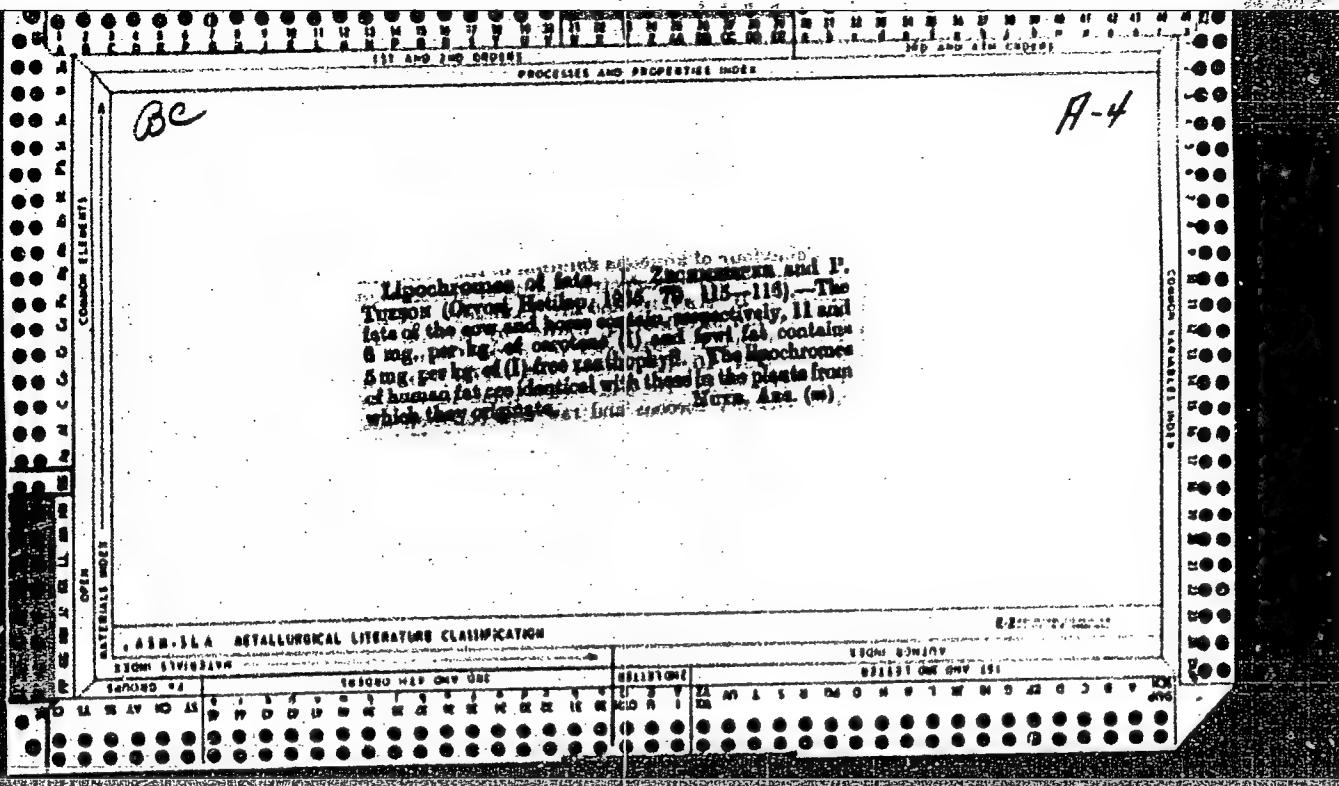
12

Carotenoids of Hungarian wheat flour. L. Zechmeister and L. Cholnoky, *J. Biol. Chem.*, 135, 31-8 (1940). Unbleached wheat flour from southern Hungary is virtually a provitamin A source since it contains no more than 0.01 mg. of carotene per kg., if any, and is free from cryptoxanthine. Xanthophyll (betaein) is practically the only polyene present. By repeated application of the chromatographic method, 15 mg. of pure xanthophyll crystals was isolated from 50 kg. of flour. A. P. Lothrop

b7c

13717 **Progress in the Chemistry of Organic Natural Products**, Vols. VI and VII, L. Zechmeister, editor, 392 and 330 pages, 1950. Springer-Verlag, Vienna, Austria. (QD245 F77c)

Consists of a series of review articles as follows: Vol. VI, "Some Biochemical and Nutritional Aspects in Fat Chemistry", H. J. Densel, Jr. and S. M. Greenberg; "Animal Odors and Perfumes" (French), E. Leibler; "Occurrence and Biochemical Behavior of Quinones" (German), O. Hoffman-Ostenholz; "Cactus Alkaloids and Some Related Compounds", L. Rettig; "Plant Proteins", J. Bonner; and "Recent Progress in the Fluorescence Spectrochemistry of Biological Products" (French), Ch. Dhéré. Vol. VII—"Concerning the Constitution of Triterpenes" (In German), O. Jeger; "Constitution, Configuration, and Synthesis of Digitaloid Aglycones and Glycosides" (In German), H. Heusser; "Thyroxine and Related Compounds", C. Niemann; "Penicillin and Its Place in Science", A. H. Cook; "Sennosides A and B, the Active Principles of Senna", A. Stoll and B. Becker; and "Some Recent Developments in the Chemistry of Antibodies", J. W. Williams.



The petal pigment of *Clelandia officinalis*, Linnaeus, Zechmeister, and László Cholnoky. *Makromol. Chem.* 49, 181-8 (1962).—Extr. of the petals c. with alc. and tapot. of the ext. with MeOH-KOH gave xanthophylls, carotene and lycopene; the last was found for the first time in non-fruit material. Carotene has spectrum lines at 330-12 and 423-6 m $\mu$ ,  $[\alpha]_D^{25}$  (benzene) 20°. Lycopene has spectrum lines at 364-38, 316-497 and 482-67 m $\mu$ . The xanthophyll showed lines at 310-493 and 481-63 m $\mu$ ; its ether soln. when underlayered with a 25% HCl soln. gave a beautiful dark blue color. S. S. de Finley

S. S. de Finilly

## ASM-SEA METALLURGICAL LITERATURE CLASSIFICATION

卷之三

**APPROVED FOR RELEASE: 03/15/2001**

CIA-RDP86-00513R001964210018-9"

*CA**P*

The partial hydrolysis of polysaccharides. László ZECHNERISTER. *Mach. nature.* *Ann. mag. Akad. Wiss.* 48, 443-60 (1931).—Cellulose was hydrolyzed with cold concd. HCl. The treatment was interrupted after 3-4 hrs. by means of  $\text{Ag}_2\text{CO}_3$  and a hydrolysate of a complicated compn. was obtained ranging from dextrin insol. in water to sucrose. A water-alc. mixt. could be used for the sepn. of this complex and cellobiose, cellobiose, celiotriose and cellobetaose were obtained in cryst. form. The data of Willstätter on tri- and tetraoses were approved. The oligosaccharides could be characterized by the derivs.: acetates of all sugars and phenylsazones of tri- and tetraoses. The expts. support the chain structure of cellulose. Also lichenin and chitin could be decompd. with HCl. The acetylation of the products of their partial hydrolysis gave cryst. compds.

S. S. or FINALLY

CLOTHES, ETC., ETC.

MATERIALS, ETC., ETC.

## ASN-LSA METALLURGICAL LITERATURE CLASSIFICATION

E2

## ECONOMIC STRUCTURE

## INDUSTRIAL

## TECHNICAL

## SCIENTIFIC

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

## ANALYTICAL

## CHEMICAL

## PHYSICAL

## MATHEMATICAL

## STATISTICAL

## TECHNICAL

## EDUCATIONAL

## GENERAL

## BIBLIOGRAPHY

## STANDARDS

## TEST METHODS

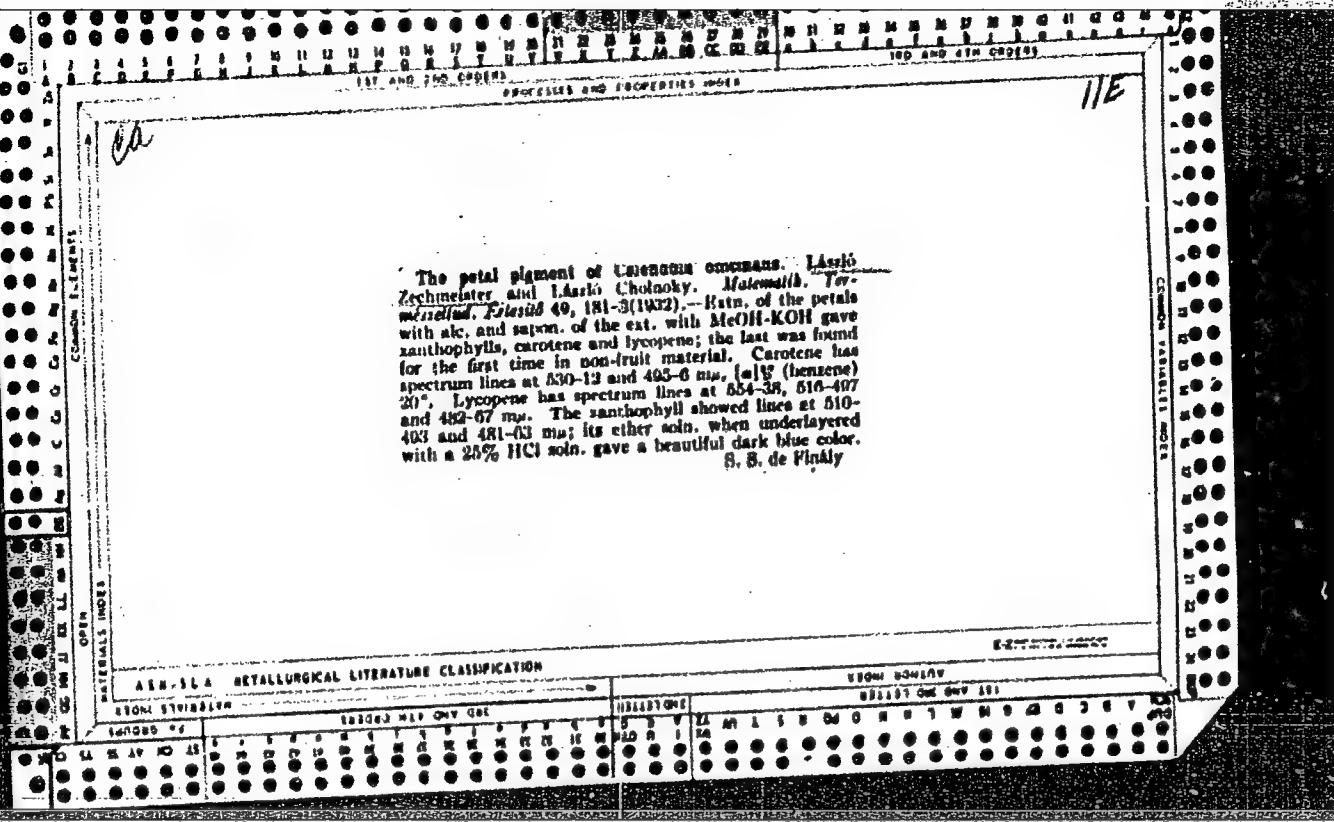
## ANALYTICAL

## CHEMICAL

## PHYSICAL

The petal pigment of *Catunetia concinna*. László Zechmeister and László Cholnoky. Matematikai, Természettudományi és Értekezések 49, 181-31 (1932).—Kitt., of the petals with alk. and sapon. of the ext. with MeOH-KOH gave xanthophylls, carotene and lycopene; the last was found for the first time in non-fruit material. Carotene has spectrum lines at 430-13 and 495-6 m $\mu$ ;  $[\alpha]_D^{25}$  (benzene) 20°. Lycopene has spectrum lines at 554-38, 510-497 and 492-67 m $\mu$ . The xanthophyll showed lines at 510-403 and 481-63 m $\mu$ ; its ether soln. when underlayered with a 20% HCl soln. gave a beautiful dark blue color.

TTE



Chemical examination of the red pigments of some autumn fruits. LUDWIG ZACH,  
WILHELM AND LUDWIG CROHNIG. *Mitteilung. In: Transmittiert. September 17, 1937.*  
(German abstract 210) (1930); cf. C. A. 24, 3123, 4303.--Study kg of *Lycium halimifolium*  
gave 17 g. of a cryst. pigment, the colour of which was found to be  $C_21H_{16}O_4$ .  
It is identical with the phyzanthrin of Kuhn and Wiegand. No secondary pigments were  
found. Fruits of *Tamus communis* contained lycopine, also fruits of *Solanum dulcamara*.  
Arius of *Erythrina europaea* contained a xanthophyll-like pigment of the compn.  
 $C_{11}H_{16}O_4$ . Examn. of other fruits, e. g., *Arum maculatum* and *Sorbus aucuparia* is in  
progress.

S. S. PB 194414

ABR-152 METALLURGICAL LITERATURE CLASSIFICATION

12001 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

12003 120 1214 1214

130

R-1

137 AND 246 CASES

## PROCESSES AND PROPERTIES 425

Crystallisation of potassium chloride from the fused state. Preparation of large monocrystals of sylvite. E.-V. ZECHNOVITZER (J. Phys. Chem. Russ., 1937, 9, 917-928).—KCl monocrystals with a diameter of 8–15 cm. were grown by the method of Kyropoulos, i.e., by drawing from the fused salt.

E. R.

## AMERICAN SOCIETY FOR METALS METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9"

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9

ZECHMEISTER, O.

(Erno)

Survey of shearing and cutting technology. Jemna mach opt. 9  
no.7:224-226 Jl '64

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9"

ZEGNER, L.

(3)

Glycosidal contents of *Cynanchum vincetoxicum*, II.  
Glycosides of the seeds, L. Zegner and J. Kellelmayer  
(Univ. Graz, Austria). *Scripia pharm.* 21, 153-61 (1953);  
cf. *C.A.* 47, 10803d.—The seeds of *Cynanchum vincetoxicum*  
were extd. and the exts. sepd. into the same 8 fractions as  
with the roots; the Pb(OH)<sub>2</sub> step was omitted in the purifi-  
cation. Fractions V, VI, Va. and Via were largely colored  
materials. Fractions III, IV, and a mixt. of III and IV,  
m. 125-9°, 123-0°, and 101-14°, resp. The color reactions  
and the behavior of the solns. on warming were the same as  
those of the root glycosides. John Howe Scott

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
Biological Chemistry

ZECHNER, Z.

Case of trichobezoar in the stomach of child. Acta chir.  
jugosl. 4 no.1:84-87 1957.

1. Kirurska klinika Medicinskog Fakulteta u Zagrebu (Predstojnik:  
prof. dr. D. Juzbasic).  
(BEZOARS, in inf. & child  
stomach trichobezoar (Ser))  
(STOMACH, foreign bodies  
trichobezoar in child (Ser))

BC

A-1

Crystallization of calcium fluoride from the fused state. E. V. ZECHNOVITSKII (J. Phys. Chem. Russ., 1937, 8, 88-99).—CaF<sub>2</sub> was fused in ZrO<sub>2</sub> crucibles. The largest single crystals obtained were <5 mm. No transparent agglomerations could be obtained by re-melting. One of the main causes of failure was the decomp. of CaF<sub>2</sub> with the formation of >3% of CaO.

E. R.

COPPER

MATERIALS TESTED

## ASS-SEA METALLURGICAL LITERATURE CLASSIFICATION

SECTION	CLASSIFICATION	SECTION	CLASSIFICATION
1	1	2	2
3	3	4	4
5	5	6	6
7	7	8	8
9	9	10	10
11	11	12	12
13	13	14	14
15	15	16	16
17	17	18	18
19	19	20	20
21	21	22	22
23	23	24	24
25	25	26	26
27	27	28	28
29	29	30	30
31	31	32	32
33	33	34	34
35	35	36	36
37	37	38	38
39	39	40	40
41	41	42	42
43	43	44	44
45	45	46	46
47	47	48	48
49	49	50	50
51	51	52	52
53	53	54	54
55	55	56	56
57	57	58	58
59	59	60	60
61	61	62	62
63	63	64	64
65	65	66	66
67	67	68	68
69	69	70	70
71	71	72	72
73	73	74	74
75	75	76	76
77	77	78	78
79	79	80	80
81	81	82	82
83	83	84	84
85	85	86	86
87	87	88	88
89	89	90	90
91	91	92	92
93	93	94	94
95	95	96	96
97	97	98	98
99	99	100	100
101	101	102	102
103	103	104	104
105	105	106	106
107	107	108	108
109	109	110	110
111	111	112	112
113	113	114	114
115	115	116	116
117	117	118	118
119	119	120	120
121	121	122	122
123	123	124	124
125	125	126	126
127	127	128	128
129	129	130	130
131	131	132	132
133	133	134	134
135	135	136	136
137	137	138	138
139	139	140	140
141	141	142	142
143	143	144	144
145	145	146	146
147	147	148	148
149	149	150	150
151	151	152	152
153	153	154	154
155	155	156	156
157	157	158	158
159	159	160	160
161	161	162	162
163	163	164	164
165	165	166	166
167	167	168	168
169	169	170	170
171	171	172	172
173	173	174	174
175	175	176	176
177	177	178	178
179	179	180	180
181	181	182	182
183	183	184	184
185	185	186	186
187	187	188	188
189	189	190	190
191	191	192	192
193	193	194	194
195	195	196	196
197	197	198	198
199	199	200	200
201	201	202	202
203	203	204	204
205	205	206	206
207	207	208	208
209	209	210	210
211	211	212	212
213	213	214	214
215	215	216	216
217	217	218	218
219	219	220	220
221	221	222	222
223	223	224	224
225	225	226	226
227	227	228	228
229	229	230	230
231	231	232	232
233	233	234	234
235	235	236	236
237	237	238	238
239	239	240	240
241	241	242	242
243	243	244	244
245	245	246	246
247	247	248	248
249	249	250	250
251	251	252	252
253	253	254	254
255	255	256	256
257	257	258	258
259	259	260	260
261	261	262	262
263	263	264	264
265	265	266	266
267	267	268	268
269	269	270	270
271	271	272	272
273	273	274	274
275	275	276	276
277	277	278	278
279	279	280	280
281	281	282	282
283	283	284	284
285	285	286	286
287	287	288	288
289	289	290	290
291	291	292	292
293	293	294	294
295	295	296	296
297	297	298	298
299	299	300	300
301	301	302	302
303	303	304	304
305	305	306	306
307	307	308	308
309	309	310	310
311	311	312	312
313	313	314	314
315	315	316	316
317	317	318	318
319	319	320	320
321	321	322	322
323	323	324	324
325	325	326	326
327	327	328	328
329	329	330	330
331	331	332	332
333	333	334	334
335	335	336	336
337	337	338	338
339	339	340	340
341	341	342	342
343	343	344	344
345	345	346	346
347	347	348	348
349	349	350	350
351	351	352	352
353	353	354	354
355	355	356	356
357	357	358	358
359	359	360	360
361	361	362	362
363	363	364	364
365	365	366	366
367	367	368	368
369	369	370	370
371	371	372	372
373	373	374	374
375	375	376	376
377	377	378	378
379	379	380	380
381	381	382	382
383	383	384	384
385	385	386	386
387	387	388	388
389	389	390	390
391	391	392	392
393	393	394	394
395	395	396	396
397	397	398	398
399	399	400	400
401	401	402	402
403	403	404	404
405	405	406	406
407	407	408	408
409	409	410	410
411	411	412	412
413	413	414	414
415	415	416	416
417	417	418	418
419	419	420	420
421	421	422	422
423	423	424	424
425	425	426	426
427	427	428	428
429	429	430	430
431	431	432	432
433	433	434	434
435	435	436	436
437	437	438	438
439	439	440	440
441	441	442	442
443	443	444	444
445	445	446	446
447	447	448	448
449	449	450	450
451	451	452	452
453	453	454	454
455	455	456	456
457	457	458	458
459	459	460	460
461	461	462	462
463	463	464	464
465	465	466	466
467	467	468	468
469	469	470	470
471	471	472	472
473	473	474	474
475	475	476	476
477	477	478	478
479	479	480	480
481	481	482	482
483	483	484	484
485	485	486	486
487	487	488	488
489	489	490	490
491	491	492	492
493	493	494	494
495	495	496	496
497	497	498	498
499	499	500	500
501	501	502	502
503	503	504	504
505	505	506	506
507	507	508	508
509	509	510	510
511	511	512	512
513	513	514	514
515	515	516	516
517	517	518	518
519	519	520	520
521	521	522	522
523	523	524	524
525	525	526	526
527	527	528	528
529	529	530	530
531	531	532	532
533	533	534	534
535	535	536	536
537	537	538	538
539	539	540	540
541	541	542	542
543	543	544	544
545	545	546	546
547	547	548	548
549	549	550	550
551	551	552	552
553	553	554	554
555	555	556	556
557	557	558	558
559	559	560	560
561	561	562	562
563	563	564	564
565	565	566	566
567	567	568	568
569	569	570	570
571	571	572	572
573	573	574	574
575	575	576	576
577	577	578	578
579	579	580	580
581	581	582	582
583	583	584	584
585	585	586	586
587	587	588	588
589	589	590	590
591	591	592	592
593	593	594	594
595	595	596	596
597	597	598	598
599	599	600	600
601	601	602	602
603	603		

ZECEVIC, LJ.

Tests in pollen germination in some fruit species.

p. 101 (Belgrade, Institut za fiziologiju razvica, genetiku i selekciju. Zbornik Radova.  
No. 4, 1956. Beograd, Jugoslavia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,  
February 1958

ZECKOVIC, Vladimir (Zagreb)

Geodesy in checking the landslide of Zalesina, Gradavinar 13  
no.11:348-356 N '61.

ZEDANIYA, G.M.  
USSR/Medicine - Scarlet fever

FD-2301

Card 1/1      Pub 148 - 2/36

Author : Kvitalashvili, G. V.; Elizbarashvili, L. N.; Bibineyshvili, M. V.;  
Zedaniya, G. M.

Title : The clinical and epidemiological characteristics of scarlet fever  
on the basis of data collected at a clinic of infectious diseases  
during 1931-1947

Periodical : Zhur. mikro. epid. i immun. No 2, 10-13, Feb 1955

Abstract : Outline the clinical and epidemiological aspects of scarlet fever  
in Tbilissi during 1931-47, considering infection with this disease  
as a single, uninterrupted epidemiological process extending  
over 14 years. State that the average lethality from scarlet  
fever during this period was 8.9% and that the causative factor of  
the disease became milder, i.e. produced a less severe form of the  
infection towards the end of the period. One graph.

Institution : Clinic of Infectious Diseases, Tbilissi Medical Institute

Submitted : August 10, 1953.

JELINEK, Milos; VALOUCH, Miloslav; FUKSA, Josef; ZEDEK, Miloslav

Report of the meeting of the Central Committee of the Association  
of Czechoslovak Mathematicians and Physicists held in Prague on  
November 2, 1960.

ZEDEK, M.

"130th birthday of Professor Frantisek Tilser, founder of Czech descriptive geometry." p. 89.

OLOMOUC, CZECHOSLOVAK REPUBLIC. VYSOKA SKOLA PEDAGOGICKA. SBORNIK. PRIRODNI VEDY. Olomouc, Czechoslovakia, No. 3, 1957.

Monthly List of East European Accessions (EEAI), LC, VOL. 8, NO. 8, August, 1959.  
Unci.

ZEDEK, S.; HYNEK, S.; BARTAKOVA, Z.

Differential thermal analysis and its application to the study of catalysts.  
p. 151. (SILIKATY, Vol. 1, No. 2, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964210018-9"

5(4)

SOV/78-4-6-15/44

AUTHORS: Spitsyn, I. Vikt., Zedelashvili, Ye. N.

TITLE: Investigation of the Isotopic Exchange of Tungsten in Sodium-tungsten Bronzes (Issledovaniye izotopnogo obmena vol'frama v natriy-vol'framovykh bronzakh)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 6, pp 1305-1308 (USSR)

ABSTRACT: The isotopic exchange of the tungsten atoms in the tungsten bronzes was investigated by means of the radioactive isotope  $W^{185}$  ( $T_{1/2} = 73.2$  days). Sodium-tungsten bronzes were produced according to the method of O. Brunner. The results showed that the tungsten atoms in the sodium-tungsten bronzes are equivalent. The investigation results of the yellow and purple tungsten bronzes are given in tables 1 and 2. The synthesis of the tungsten bronzes from  $NaWO_4$  and low tungsten oxides was carried out in the vacuum furnace (construction given in figure 1). The formulas  $NaWO_3$  or  $Na_2O \cdot W_2O_5$  are suggested for the golden yellow tungsten bronzes. The formula  $Na_2O \cdot W_3O_8$  was suggested for the purple bronze. Two tungsten atoms in

Card 1/2

SOV/78-4-6-15/44

Investigation of the Isotopic Exchange of Tungsten in Sodium-tungsten  
Bronzes

this formula are pentavalent, one atom hexavalent. No isotopic exchange takes place between the solid phases  $\text{Na}_2\text{WO}_4$  and the low oxides of tungsten at  $400^\circ$ . This is also the case in normal sodium tungsten solutions which contain active low tungsten oxides after six hours heating up to the boiling point. There are 1 figure, 2 tables, and 8 references, 1 of which is Soviet.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk, SSSR  
(Institute of Physical Chemistry of the Academy of Sciences,  
USSR)

SUBMITTED: December 29, 1958

Card 2/2

5 (2)

AUTHORS: Spitsyn, Vikt. I., Zedelashvili, Ye. N. SOV/78-4-8-14/43

TITLE: The Investigation of the Exchange of Tungsten Isotopes in Some Isopolywolframates (Izuchenie izotopnogo obmena vol'frama v nekotorykh izopolivol'framatakh)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 8,  
pp 1794 - 1796 (USSR)

ABSTRACT: Previous papers by the authors (Refs 1,2) point to the different linkage of the second sulphur atom in  $S_2O_7^{2-}$ . The mobility of the S-atoms decreases with increasing diameter of the cation. In this paper a parallel investigation of isopolywolframates is carried out. In this connection it is assumed that due to the longer diameter of the tungsten atom the linkage in the anion is less covalent and more ion-like. Mercury salt was separated from  $Na_2WO_4$  with  $W^{185}$  ( $T_1 = 73.2$  days), by annealing it was transformed into marked anhydride of tungstic acid and the distribution of radioactive tungsten was investigated after the following reaction carried out at  $700^\circ$ :

Card 1/3

The Investigation of the Exchange of Tungsten  
Isotopes in Some Isopolywolframates

SOV/78-4-8-14/43

$\text{WO}_3 + \text{Na}_2\text{WO}_4 = \text{Na}_2\text{W}_2\text{O}_7$ ;  $2\text{WO}_3 + \text{Na}_2\text{W}_2\text{O}_7 = \text{Na}_2\text{W}_4\text{O}_{13}$ . In the hydrogen current a reduction of the additional anhydride of tungstic acid takes place at  $700^\circ$ :  $\text{Na}_2\text{W}_2\text{O}_7 + 3\text{H}_2 = \text{Na}_2\text{WO}_4 + \text{W} + 3\text{H}_2\text{O}$ ;  $\text{Na}_2\text{W}_4\text{O}_{13} + 9\text{H}_2 = \text{Na}_2\text{WO}_4 + 3\text{W} + 9\text{H}_2\text{O}$ . Table 1 shows the isotopic exchange in diwolframate, table 2 in tetra-wolframate. The marked tungsten of  $\text{WO}_3$  is regularly distributed. The tungsten atoms are therefore equivalent in the poly-wolframates. By this fact they differ from sodium pyrosulphate. For the complex ion  $\text{W}_2\text{O}_7^{2-}$  the structure  $\begin{bmatrix} \text{O} & \text{O} \\ \text{OWOWO} \\ \text{O} & \text{O} \end{bmatrix}^{2-}$  is assumed, whereas in pyrosulphate the  $\text{SO}_4^{2-}$ -ion probably maintains a certain individual character:  $\begin{bmatrix} \text{S} & \text{O}_3 \end{bmatrix}$ . No isotopic exchange takes place between a solution of  $\text{Na}_2\text{WO}_4$  and metallic tungsten or  $\text{WO}_3$ . In the solid phase the exchange takes place only after

Card 2/3

The Investigation of the Exchange of Tungsten  
Isotopes in Some Isopolywolframates

SOV/78-4-8-14/43

the formation of the polywolframates. There are 2 tables and  
4 Soviet references.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of  
Physical Chemistry of the Academy of Sciences, USSR)

SUBMITTED: December 29, 1958

Card 3/3

ZEDELASHVILI, Ye. N.

Dissertation: "Study of Isotope Exchange in Certain Isopoly-compounds of Wolfram and Sulfur." Cand Chem Sci, Inst of Physical Chemistry, Acad Sci USSR, 20 May 54.  
Vechernaya Moskva, Moscow, 11 May 54.

SO: SUM 284, 26 Nov 1954

41360

S/081/62/000/018/008/059  
B101/B186

5.4600

AUTHOR: Zedelashvili, Ye. N.

TITLE: Transformation of o-nitro-aniline under the action of gamma radiation

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 18, 1962, 54, abstract 18B370 (Soobshch. AN GruzSSR, v. 27, no. 5, 1961, 541 - 545, Rus.)

TEXT: When aqueous, air-saturated solutions of o-nitro-aniline are irradiated with  $\text{Co}^{60}$  gamma rays the changes in the color of the solution and formation of a brown precipitate are observed. Methods of extraction and chromatography showed the formation of a colorless substance, well soluble in ether and not extractable by benzene (absorption maximum in the range 250 - 280  $\mu\text{m}$ ), as well as of brown and pink-reddish substances. The results obtained by IR analysis of the brown precipitate allow the assumption that hydroxylation occurs in the radiolysis of o-nitro-aniline. [Abstracter's note: Complete translation.] X

" Card 1/1

ZEDELASHVILI, Ye.N.

Physicochemical properties of the radiolysis product of crystalline  
o-nitroaniline. Dokl. AN SSSR 164 no.2:334-335 S '65.  
(MIRA 18:9)

1. Institut fizicheskoy i organicheskoy khimii im. P.G.  
Melikishvili AN GruzSSR. Submitted February 13, 1965.

L 21941-66 EMT(m)  
ACC NR. AP6014654

AUTHOR: Zedgenidze, G. A.

ORG: Institute of Medical Radiology, AMN SSSR, Moscow (Institut meditsinskoy radiologii AMN SSSR)

TITLE: Postradiation recovery processes at the level of the organism, the tissues, and the cell 19

SOURCE: Meditsinskaya radiologiya, v. 10, no. 1, 1965, 5-17  
TOPIC TAGS: radiation biologic effect, biologic metabolism, radiation sickness, ionizing radiation

ABSTRACT: The author surveys present knowledge of the processes of post-radiation recovery, particularly at the cellular and subcellular levels. These processes still remain largely unexplored in view of their complexity and the extreme diversity of their duration and clinical symptoms. The only definite thing is that the period of postradiation recovery is extremely long. Furthermore, clinical studies of the recovery of the functions and structures of different organs and systems of experimentally irradiated animals, as well as studies of the course of the process of tissue regeneration and of recovery at the cellular and subcellular levels point to the unity of these phenomena at every level of biological organization. Thus, research into the features of the postradiation recovery of cells contributes

UDC: 616-001.28-036.82: 576.3·7

Card 1/2

1 21011-66

ACC NR. AP6014654

to a better understanding of the postradiation recovery of the integral organism. Conversely, proper regulation of metabolism in the irradiated organism may markedly contribute to the recovery of its cells and hence also to the effectiveness of the subsequent regenerative process. Research in this direction has already been initiated. The studies performed so far indicate that the rate of the process of recovery always depends on the physiological state of the organism and the cell as a whole. It is also evident that this recovery is never complete, since radiation injuries always include an irreversible component. This -- the ratio of reversible to irreversible changes due to ionizing radiation at the level of the integral organism -- is another aspect that remains virtually uninvestigated and widely debated, and requires special research. Orig. art. has: 7 figures. *[JPRS]*

SUB CODE: 06 / SUBM DATE: 25Jan65 / ORIG REF: 035 / OTH REF: 006

Card 2/2 10/6

ZEDGINIDZE, A. S.; BYUS, A. V.

New design of a separating chamber. Trudy GPI [Gruz.] no. 4:  
59-72 '63.  
(MIRA 17:5)